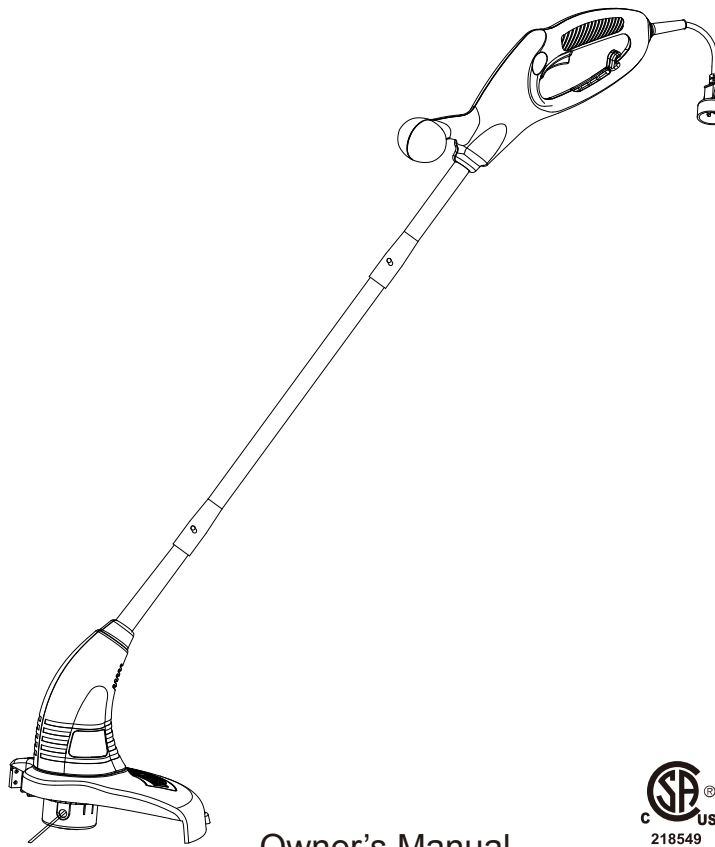
Electric Grass Trimmer

Model 21182



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Owner's Manual

TOLL-FREE HELPLINE: 1-888-90WORKS (888.909.6757)

⚠ Read all safety rules and instructions carefully before operating this tool.

Contents

CONTENTS..... 2
TECHNICAL DATA..... 2
GENERAL SAFETY RULES.....3-4
SPECIFIC SAFETY RULES.....5
SYMBOLS.....6
ELECTRICAL INFORMATION.....7-9
KNOW YOUR ELECTRIC GRASS TRIMMER.....10
ASSEMBLY AND ADJUSTMENTS.....11-15
OPERATION.....16-18
MAINTENANCE.....19
WARRANTY.....20
PARTS LIST.....21-22

Technical Data

ELECTRIC GRASS TRIMMER

Model Number.....21182
Motor.....120 V AC, 60 Hz, 2.2 A
Trimmer Line.....0.065" (1.65 mm) diameter monofilament nylon
Power cord.....9 in (22.9 cm), 2-prong polarized
Cutting circle diameter .....9" (22.8 cm)
Overall trimmer length.....45" (115 cm)
Double insulated.....Yes
Weight.....3 lb 10 oz (1.64 kg)

General Safety Rules

Safety is a combination of common sense, staying alert, and knowing how to use your Electric Grass Trimmer.

⚠WARNING

TO AVOID MISTAKES THAT COULD CAUSE SERIOUS INJURY, DO NOT PLUG IN THE ELECTRIC GRASS TRIMMER UNTIL THE FOLLOWING STEPS HAVE BEEN READ AND UNDERSTOOD.

1. READ and become familiar with this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.
2. AVOID DANGEROUS CONDITIONS. DO NOT use power tools in wet or damp areas or expose them to rain.
3. DO NOT use power tools in the presence of flammable liquids or gases.
4. ALWAYS keep your work area clean, uncluttered, and well lit. DO NOT work on floor surfaces that are slippery with sawdust or wax, or water.
5. KEEP BYSTANDERS A MINIMUM 50' AWAY FROM the work area, when the tool is operating. NEVER allow children near the tool.
6. DO NOT FORCE THE TOOL to do a job for which it was not designed.
7. DRESS FOR SAFETY. DO NOT wear loose clothing, gloves, neckties, or jewellery (rings, watches) when operating tool. They can get caught and draw you into moving parts.
8. Wear safety glasses or goggles that are marked to comply with ANSI Z87.1 standard when operating this unit.
9. ALWAYS remove the power cord plug from the electric outlet when making adjustments, changing parts, cleaning or working on the tool.
10. AVOID ACCIDENTAL STARTUPS. Make sure the power switch is in the OFF position before plugging in the power cord.
11. DO NOT abuse the power cord. Do not use it to carry the tool. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately; they may create a shock or fire hazard.
12. NEVER LEAVE A RUNNING TOOL UNATTENDED. Turn the power switch to OFF. Do not leave the tool until it has come to a complete stop.
13. DO NOT OVERREACH. Keep proper footing and balance at all times. Wear oil-resistant, rubber-soled footwear.
14. To avoid overloading, use the tool as it was intended to be used.

SAVE THESE SAFETY RULES

General Safety Rules

15. MAINTAIN TOOLS PROPERLY. ALWAYS keep tools clean and in good working order.
16. CHECK FOR DAMAGED PARTS. Check for alignment of moving parts, binding, breakage, or any other conditions that may affect the tool's operation. Any part that is damaged should be properly repaired or replaced before use.
17. DO NOT operate tool if you are under the influence of any drugs, alcohol or medication that could affect your ability to use the tool properly.
18. KEEP THE HANDLE DRY, CLEAN, AND FREE FROM OIL AND GREASE. Always use a clean cloth when cleaning. Do not use solvents, brake fluids, gasoline, or other petroleum products to clean the tool, they may damage plastic parts.

ALWAYS WEAR EYE PROTECTION.
An Electric Grass Trimmer can throw foreign objects into your eyes, which could cause permanent eye damage. ALWAYS wear safety goggles (not glasses). Ordinary eyeglases have only impact-resistant lenses that comply with ANSI Z87.1.

PROPOSITION 65
Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
· lead from lead-based paints
· crystalline silica from bricks and cement and other masonry products
· arsenic and chromium from chemically-treated lumber
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SAVE THESE SAFETY RULES

Specific Safety Rules

1. IF YOU ARE NOT thoroughly familiar with the operation of the Electric Grass Trimmer, obtain advice from a qualified person.
2. MAKE SURE wiring codes and recommended electrical connections are followed. The Electric Grass Trimmer is double insulated. When servicing, use only identical replacement parts.
3. DO NOT grasp the spool, line or the guard when picking up or holding the trimmer. The line and line trimming blade can cause severe injury to hands and fingers.
4. AVOID UNINTENTIONAL STARTING. Don't carry plugged-in Electric Grass Trimmer with finger on switch. Be sure switch is OFF when plugging in.
5. DO NOT FORCE THE ELECTRIC GRASS TRIMMER. It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
6. DO NOT OVERREACH. Keep proper footing and balance at all times.
7. STORE the Electric Grass Trimmer indoors. When not in use, trimmers should be stored indoors in dry, high, or a locked-up place, out of the reach of children.
8. MAKE all adjustments with the power OFF and the Electric Grass Trimmer disconnected from the power source.

⚠WARNING

NEVER REACH UNDER THE ELECTRIC GRASS TRIMMER (CUTTING LINE AREA) UNTIL IT HAS COMPLETELY STOPPED. THE ELECTRIC GRASS TRIMMER WILL CONTINUE TO ROTATE FOR A FEW SECONDS AFTER IT IS SWITCHED OFF.

9. ALWAYS use accessories provided or recommended by the manufacturer of the Electric Grass Trimmer. Do not substitute.
10. KEEP guards in place and in working order. Keep the line trimming blade sharp. Keep hands and feet away from cutting areas.
11. WHEN LENGTHENING NEW CUTTING LINE, be careful of the line cutter on the guard, it is sharp.
12. KEEP VENTILATION OPENINGS clear of debris.
13. Before using the Electric Grass Trimmer, remove any stones, sticks, debris or objects that could become entangled or thrown by the trimmer.

SAVE THESE SAFETY RULES

Symbols

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Safety Alert	Indicates a potential personal injury hazard.
	Read The Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear eye protection with side shields marked to comply with ANSI Z87.1.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Keep Bystanders Away	Keep all bystanders at least 50 ft. away.
	Ricochet	Thrown objects can ricochet and result in personal injury or property damage.
	No Blade	Do not install or use any type of blade on a product displaying this symbol.
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
	Alternating Current	Type of current
	Direct Current	Type or a characteristic of current
	Class II Tool	Double-insulated construction

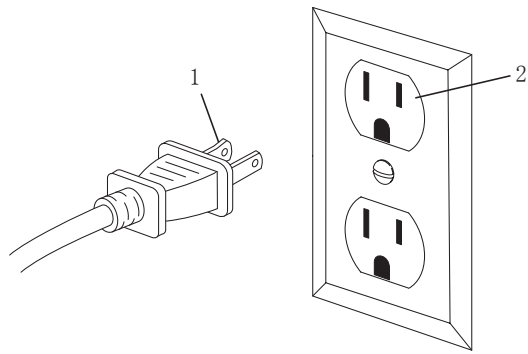
Electrical Information

⚠WARNING TO AVOID ELECTRICAL HAZARDS, FIRE HAZARDS, OR DAMAGE TO THE TOOL, USE PROPER CIRCUIT PROTECTION. YOUR LAWN TRIMMER IS WIRED AT THE FACTORY FOR 120 V AC OPERATION. CONNECT TO A 120 V, 15 A CIRCUIT AND USE A 15 A TIME DELAY FUSE OR CIRCUIT BREAKER. TO AVOID SHOCK OR FIRE WHEN THE POWER CORD IS WORN, CUT, OR DAMAGED IN ANYWAY, REPLACE IT IMMEDIATELY.

DOUBLE INSULATED

This Electric Grass Trimmer has a plug that looks like the one shown in Fig. A. The Electric Grass Trimmer is double insulated to provide a double thickness of insulation between you and the tool's electrical system. All exposed metal parts are isolated from the internal metal motor components with protecting insulation.

Fig. A



1. 2-prong plug 2. Properly-grounded outlet

⚠WARNING TO AVOID INJURY, WHEN SERVICING THE ELECTRIC GRASS TRIMMER, USE ONLY IDENTICAL REPLACEMENT PARTS.

⚠WARNING DOUBLE INSULATION DOES NOT TAKE THE PLACE OF NORMAL SAFETY PRECAUTIONS WHEN OPERATING THIS TOOL.

⚠WARNING TO AVOID ELECTROCUTION:

1. Use only identical replacement parts when servicing a tool with double insulation. Servicing should be performed by a qualified technician.
2. Do not use in wet or damp areas or expose to rain.

SAVE THESE SAFETY RULES

Electrical Information

GROUNDING INSTRUCTIONS

IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electricshock. This tool is equipped with an electric cord that has a POLARIZED plug.The plug MUST be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

CAUTION! IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE, HAVE A CERTIFIED ELECTRICIAN CHECK THE RECEPTACLE.

⚠WARNING THIS ELECTRIC GRASS TRIMMER IS FOR OUTDOOR USE ONLY. DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS.

SAVE THESE SAFETY RULES

Electrical Information

GUIDELINES FOR USING EXTENSION CORDS

USE THE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause overheating. The table below shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Minimum Gauge for Extension Cords (AWG)

(when using 120 V only)

Ampere Rating		Total Length of Cord in Feet (metres)			
More Than	Not More Than	25' (7.6 m)	50' (15 m)	100' (30.4 m)	150' (45.7 m)
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

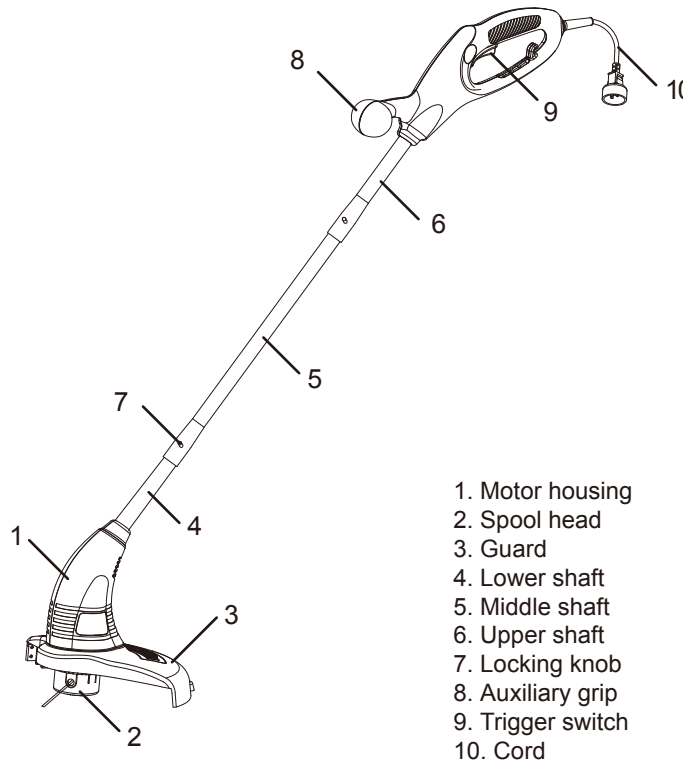
Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit should not be less than #14 wire and should be protected with a 15 A time-delay fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

⚠WARNING ALTHOUGH THIS TOOL IS DOUBLE INSULATED, THE EXTENSION CORD AND RECEPTACLE MUST STILL BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRICAL SHOCK.

SAVE THESE SAFETY RULES

Know Your Electric Grass Trimmer

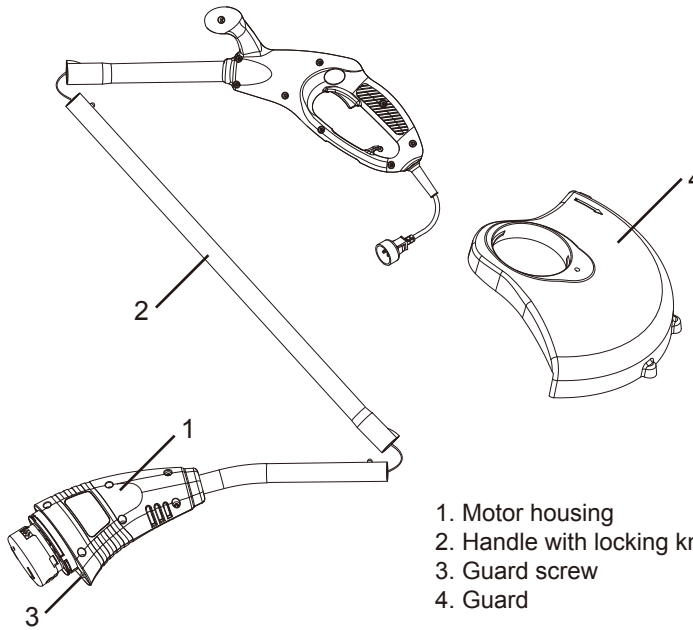


1. Motor housing
2. Spool head
3. Guard
4. Lower shaft
5. Middle shaft
6. Upper shaft
7. Locking knob
8. Auxiliary grip
9. Trigger switch
10. Cord

Assembly and Adjustments

UNPACKING (Fig. 1)
Remove the motor housing (1), the handle with locking knob (2), the guard (4), and screw (3) from the carton and examine carefully.
NOTE: Do not discard box or any packing material until all parts are examined. If any parts are missing or damaged, please call 1-866-456-8934 for assistance.

Fig. 1



1. Motor housing
2. Handle with locking knob
3. Guard screw
4. Guard

⚠WARNING IF ANY PART OF THE ELECTRIC GRASS TRIMMER IS MISSING OR DAMAGED, DO NOT PLUG THE ELECTRIC GRASS TRIMMER IN UNTIL THE DAMAGED PART IS REPAIRED OR REPLACED.

Assembly and Adjustments

ASSEMBLY INSTRUCTIONS

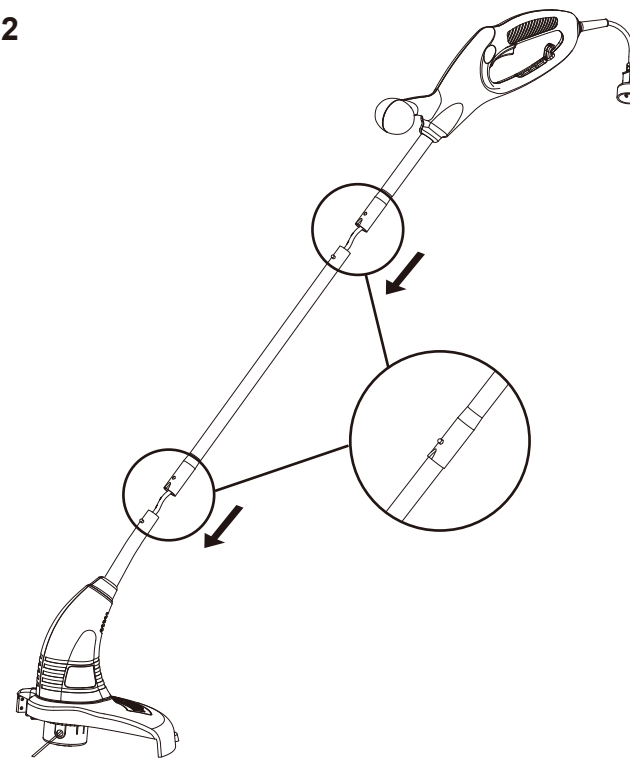
The Electric Grass Trimmer must be assembled before use. The three parts of the shaft must be connected and the guard must be attached.

⚠WARNING TO AVOID INJURY, ALWAYS TURN THE SWITCH OFF AND DISCONNECT THE ELECTRIC GRASS TRIMMER FROM THE POWER OUTLET BEFORE INSTALLING OR CHANGING THE TRIMMER LINE OR MAKING ANY ADJUSTMENTS.

Connect the handle to the motor housing (Fig. 2)

1. Slide the upper handle over the top of the middle handle, lining up the locking ball with the hole on the upper handle. Push them together to lock.
2. Slide the middle handle over the top of the lower handle, lining up the locking ball with the hole on the upper handle. Push them together to lock.

Fig. 2

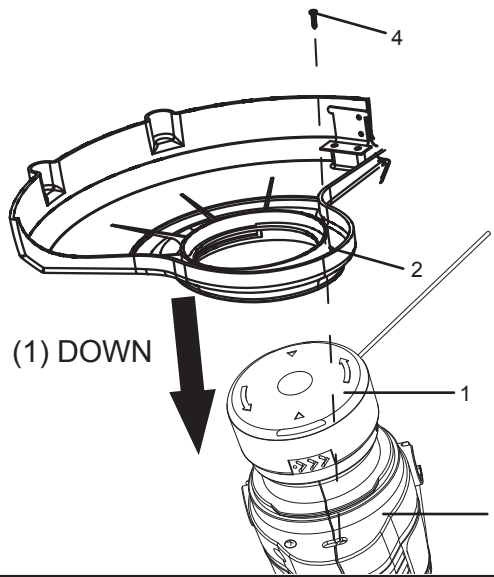


Assembly and Adjustments

Install the guard (Fig. 3)

1. Invert the lawn trimmer to access the trimmer head (1).
2. Fit the guard (2) over the trimmer head and align the groove on the guard with the tab on the motor housing (3).
3. Push the guard down over the tab, then turn it clockwise until the guard is securely in place and the hole for the screw in the motor housing and guard are aligned.
4. Insert the screw (4) into the guard and motor housing and tighten.

Fig. 3



Assembly and Adjustments

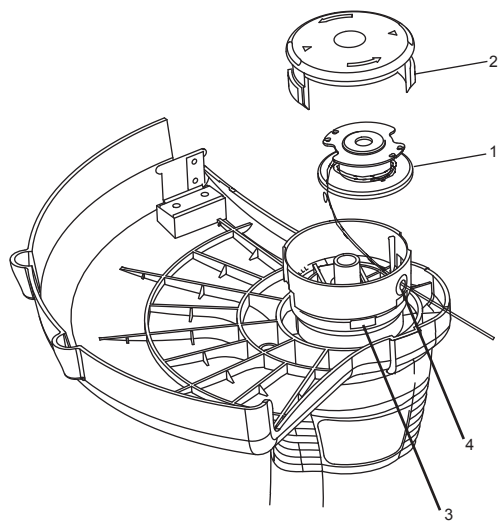
Cutting Line (Fig. 4)
A spool of monofilament cutting line is preinstalled on the Electric Grass Trimmer. When the cutting line needs replacing, insert a new spool.

To remove the spool:
1. Disconnect the Electric Grass Trimmer from the power supply.
2. Turn the Electric Grass Trimmer over to access the spool.
3. Remove spool cover by pressing on two tabs parallel to each other on the side of the cover (2).
4. Remove the spool (1) from the spool housing (3).

To replace the spool:
1. Replace the spool (1) with a new pre-wound spool.
2. Insert the end of line through the opening (4) in the spool housing (3).
3. Align the tabs on the spool cover with the slots in the spool housing on the trimmer head.
4. Push down on the spool cover, locking it to the spool housing.
5. To advance the line when initially installed, you must pull the line while pressing the black line release button on the side of the spool housing (3).

⚠WARNING To avoid injury, always disconnect Electric Grass Trimmer from the power supply before installing the guard, changing a cutting line, or making any adjustments.

Fig. 4

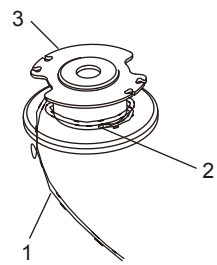


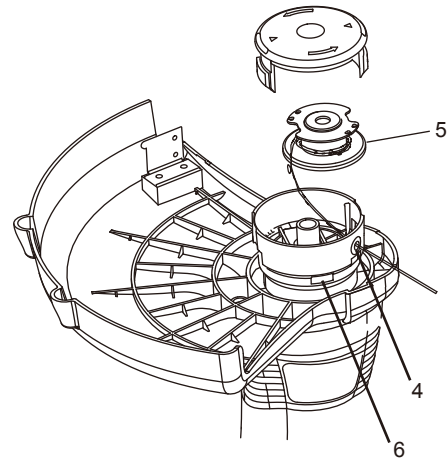
Assembly and Adjustments

To Refill the Spool (Fig. 5)

1. Cut a length of 1/16" (1.65 mm) nylon monofilament line (1) approximately 13' (4.0 m) long.
2. Insert end of line into the small hole (2) to anchor the line.
3. Wind the line evenly and tightly in a clockwise direction.
4. DO NOT wind the line beyond the edge (3) of the spool.
5. Insert the line through hole (4) in the spool housing.
6. Position line spool (5) in spool housing (6).

Fig. 5





Operation

OPERATING INSTRUCTIONS

⚠WARNING TO AVOID INJURY, DO NOT CARRY THE ELECTRIC GRASS TRIMMER WITH YOUR FINGER ON THE SWITCH. AVOID UNINTENTIONAL STARTING.

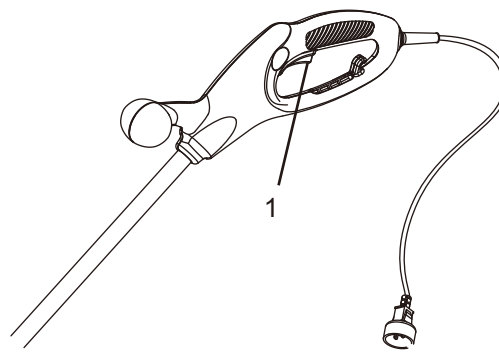
ON/OFF switch (Fig. 6)
Your Electric Grass Trimmer is equipped with an ON/OFF trigger switch.

Turn on the Electric Grass Trimmer:
1. Plug the Electric Grass Trimmer into an AC power outlet.
2. Squeeze the trigger switch (1) to turn ON the Electric Grass Trimmer.

Turn off the Electric Grass Trimmer:
1. Release the trigger switch.
2. Allow at least 5 seconds for the cutting spool to stop rotating.

⚠WARNING ALWAYS ALLOW 5 SECONDS OR MORE FOR THE CUTTING LINE SPOOL TO STOP ROTATING AFTER RELEASING THE TRIGGER SWITCH. DO NOT INVERT THE ELECTRIC GRASS TRIMMER OR PLACE YOUR HANDS UNDER THE PROTECTIVE GUARD UNTIL THE TRIMMER SPOOL IS COMPLETELY STOPPED.

Fig. 6

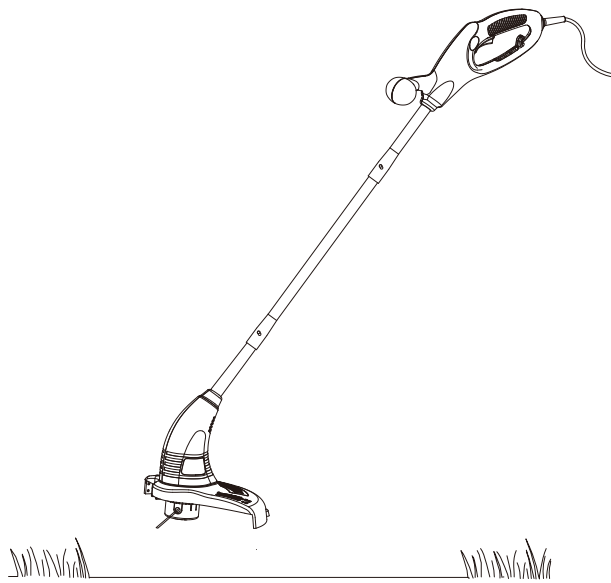


Operation

Lengthening the Line (Fig. 7)

While the Electric Grass Trimmer is operating, the cutting line gets worn down and becomes shorter. This Electric Grass Trimmer is equipped with Automatic Line Advancement, which automatically feeds additional line to the correct length as it wears down. If the line does not automatically advance, the trimmer line may be tangled or empty. (To replace the spool, see Page 13)
To advance the line, restart the Electric Grass Trimmer. Upon starting, the line will automatically advance.

Fig. 7



Operation

TRIMMER TIPS

Before each use

- Make sure the protective guard is tightly installed. Tighten the guard screw.
- Before trimming, inspect the area for string, wire, branches, or other material that may become entangled in the cutting line or thrown.

During use

- Trim only when the grass and weeds are dry.
- Do not trim grass at night. Always make sure you have adequate lighting.
- Hold the Electric Grass Trimmer by both the switch handle and the auxiliary hand for best control and balance.
- Stand with the cutting head tipped down at an angle in front, guiding the Electric Grass Trimmer in a semi-circular motion around you.
- If possible, guide the trimmer to the left to cut. The line will cut as soon as it leaves the guard, and the clippings are thrown away from you.
- To produce a smoothly trimmed area, move the Electric Grass Trimmer in and out of the area being cut with a consistent speed and height.
- Use only the tip of the cutting line to do the trimming, especially near walls and fences. Trimming with the side of the cutting line may overload the motor, wear out the line faster, and break the line more often.
- Do not rest the trimmer spool on the ground while trimming. This will cause spool wear.
- If the grass is higher than 6" (15 cm), trim in small stages.
- When the trimmer is stopped and the spool stops rotating, the cutting line will relax and may recede. Feed extra cutting line before storing the trimmer to prevent losing the line into the spool.
- If the diameter of the cutting area gets smaller, the line is worn down and needs to be advanced more often.
- If the Electric Grass Trimmer is not cutting correctly, the cutting line may not be feeding properly. Remove and rewind the line spool.

Maintenance

⚠WARNING ALWAYS TURN OFF THE TOOL AND UNPLUG THE POWER CORD FROM THE OUTLET BEFORE MAINTAINING THE LAWN TRIMMER.

GENERAL MAINTENANCE

Keep your Electric Grass Trimmer clean and in good repair for maximum performance and machine longevity. Before each use inspect the switch and cord for damage. Check for damaged, missing, or worn parts. Check for loose screws, misalignment, moving parts that are jammed, or any other conditions that may affect the operation. If abnormal vibration or noise occurs, turn off the tool immediately and have the problem corrected before further use. Do not use the Electric Grass Trimmer until it is properly repaired or replaced.

Cleaning

⚠WARNING TO AVOID INJURY, ELECTRIC SHOCK, OR DAMAGE TO THE LAWN TRIMMER, NEVER IMMERSE THE LAWN TRIMMER IN LIQUID OR ALLOW A LIQUID TO FLOW INSIDE THE TOOL.

Wipe the outside of the Electric Grass Trimmer with a dry soft cloth. Do not hose down or wash the trimmer with water. Scrape the guard and spool area to remove dried clippings and mud. Brush or blow dust, debris, and grass clippings out of the air vents. Keep the vents free of obstruction.

⚠WARNING TO AVOID DAMAGE OR ELECTRIC SHOCK, DO NOT USE STRONG SOLVENTS OR DETERGENTS ON THE PLASTIC HOUSING OR PLASTIC COMPONENTS. CERTAIN HOUSEHOLD CLEANERS MAY DAMAGE AND MAY ALSO CAUSE A SHOCK HAZARD.

Cutting Line

Replace the cutting line only with nylon monofilament line on pre-wound spools. Always wind the line in the same direction as the arrow on the spool.

LIMITED FOUR-YEAR WARRANTY

Greenworks™ hereby warranties this product, to the original purchaser with **proof of purchase**, for a period of four (4) years against defects in materials, parts or workmanship. Greenworks ™, at its own discretion will repair or replace any and all parts found to be defective, through normal use, free of charge to the customer. This warranty is valid only for units which have been used for personal use that have not been hired or rented for industrial/ commercial use, and that have been maintained in accordance with the instructions in the owners' manual supplied with the product from new.

ITEMS NOT COVERED BY WARRANTY:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration; or
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual; or
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

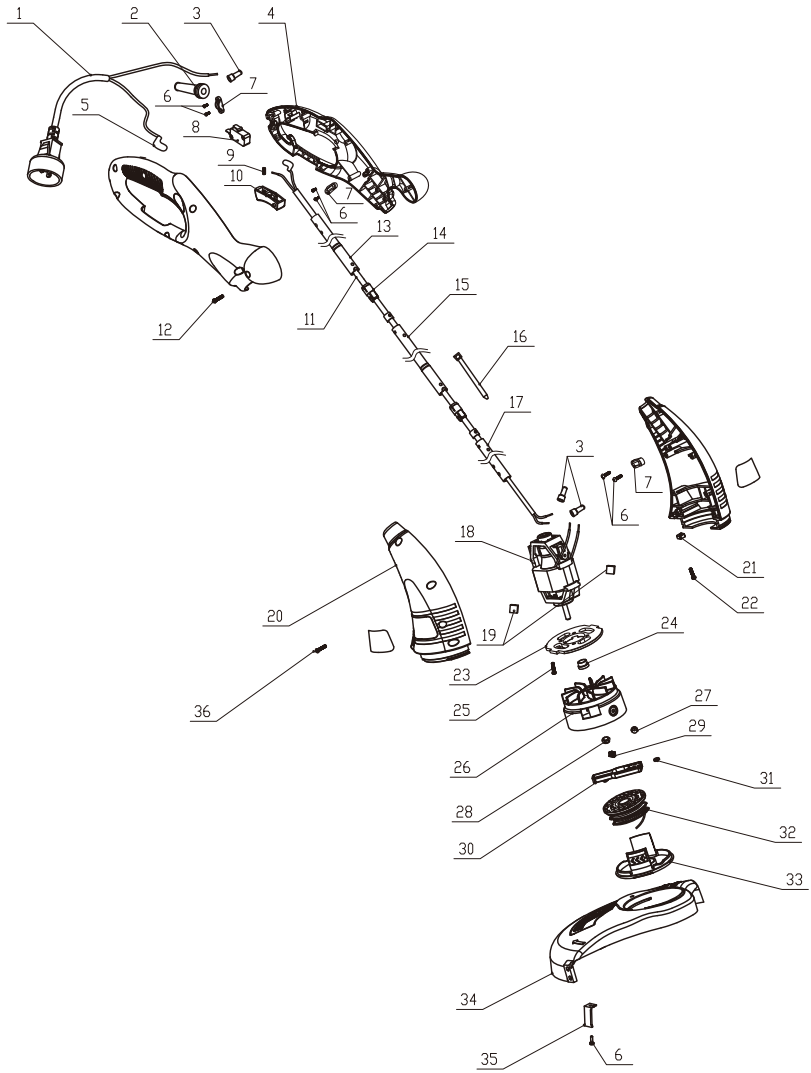
GREENWORKS HELPLINE: 1-888-909-6757 (1-888-90WORKS)

Warranty service is available by calling our toll-free helpline, 9 a.m. to 5 p.m. EST. Monday – Friday.

TRANSPORTATION CHARGES:

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. It is the purchaser's responsibility to pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by Greenworks™ .

Parts list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Parts list

Item No.	Part No.	Description	Qty
1	3640129	Cord with plug assy.	1
2	3420102	Terminal sleeve	1
3	3650135	B- terminal	3
4	3130129-6	Handle casing(left)	1
5	3650101	Terminal	2
6	3220905	Screw	6
7	3410801	Cable restraint	3
8	36303152	Micro switch	1
9	3340115	Spring	1
10	3410315-1	Swith trigger	1
11	36902332	Internal cabel	1
12	3220313	Screw	18
13	3130129-6	Handle casing(right)	1
14	33301332-9	Upper tube	1
15	31101332-2	Middle tube assy	1
16	31102332-2	Lower tube assy	1
17	3130229-7	Motor housing(right)	1
18	36101332	Motor assy	1
19	3130229-7	Motor housing(left)	1
20	3290805B	Nut	1
21	3411629	Motor mounting plate	1
22	3220345	Screw	4
23	33901332	Axle sleeve	1
24	34100709	Fan	1
25	3320146	Eyelet	1
26	32201504	Nut	1
27	34111504	Fan	1
28	3340646	Feed spring	1
29	3411746	Feed slider	1
30	3110382A	Spool assy	1
31	3411546A-1	Spool cover	1
32	34103332-1	Guard assy	1
33	3290350	Washer	1
34	3220811	Screw	1
35	33300709	Blade	1

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